Carl Moyer Memorial Air Quality Standards Attainment Program Stationary Agricultural Engine Replacement and/or Retrofit Funding

General

As of May 3, 2010 the Bay Area Air Quality Management District (District) will accept applications for the Carl Moyer Program on a first-come first-served basis. The purpose of the program is to provide funding to replace or retrofit heavy-duty diesel engines with lower-polluting engines and equipment.

Apply on-line at www.baaqmd.gov/moyer

Eligible Agricultural Projects

Eligible agricultural projects can receive up to the following CMP grant funding, covering a percentage of the total cost of the replacement engine or equipment, and installation:

- 1. Diesel to Diesel stationary agricultural engine replacement projects 85% (Tier 3 and 4 only)
- 2. Installing ARB-Verified retrofit devices on Diesel stationary equipment 100%
- 3. Certified Spark Ignition (SI) engine replacement- 85%
- 4. Diesel to Electric stationary engine / equipment replacement projects 85%
- 5. Electric Motor New Purchase 20%
- 6. Non-Engine Agricultural Use Projects Case by Case basis

Who can apply?

Owners of mobile engines and stationary and portable engines with more than 25 horsepower are eligible for grants. All vehicles and equipment funded with a grant must operate within the Air District's boundaries. **Priority will be given to projects that reduce emissions in highly impacted communities. Highest priority will be given to the following six highly impacted communities:** 1) Concord, 2) Richmond/San Pablo, 3) Western Alameda County, 4) San Jose, 5) Redwood City/East Palo Alto, and 6) Eastern San Francisco. For a Priority Community Map of highly impacted communities in the Bay Area, see: http://www.baaqmd.gov/moyer.

The following counties are part of the Air District's jurisdiction: Alameda, Contra Costa, Marin, San Mateo, San Francisco, Santa Clara, and Napa counties. The southern portions of Solano and Sonoma counties are also part of the Air District.

What can I do now, before I start my application?

- Read the Air District Carl Moyer Program Overview Fact Sheet for rules that apply to all project types available from the Air District and online at http://www.baaqmd.gov/moyer.
- Understand any applicable regulations may apply to your equipment
- Start collecting information needed for your application.
- Contact your engine or equipment dealer to discuss possibilities for your equipment.
- Review the California Air Resources Board (ARB) 2008 Carl Moyer Program Guidelines Chapter Ten "Agricultural Sources". The Guidelines are on the ARB webpage http://www.arb.ca.gov/msprog/moyer/moyer.htm.
- Contact the Air District with any additional questions.

If you have any questions regarding this program or the application process, please contact Stacy Shull by phone at (415) 749-4955 or by e-mail at: sshull@baaqmd.gov

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Carl Moyer Program AGRICULTURE

Quick-Reference Guide

For questions or more information, please contact Stacy Shull, Administrative Analyst for CMP marine, sshull@baaqmd.gov or 415-749-4955

Eligible Projects an	nd Costs				
Eligible Agricultural Equipment	 In-Use Stationary and Portable diesel engines 25 hp and greater Diesel Engines 50 hp and greater must be registered with the BAAQMD in order to be eligible for funding. Register engines here: http://www.baaqmd.gov/ag_diesel 				
Eligible Agricultural Projects	 Repower: Replace In Use engine with New Electric Motors New diesel engine that meets applicable emission standards New Spark-Ignited engine that meets applicable emission standards Retrofit: Retrofit devices include selective catalytic reduction devices, diesel oxidation catalysts or diesel particulate filters New Equipment Purchase Agricultural Assistance 				
Eligible Agricultural Costs	 The capital cost of the new engine. Tax and transport for eligible parts or costs. Labor for installation of or modification to parts eligible for funding. Electric Motors and Equipment: Capital cost of new motor Peripheral equipment associated with electric motor projects (control panel, motor leads, service pole with guy wire, connecting electric line from the meter) New Electric Equipment costs 				
Project Requirements					
Minimum project life and contract term	At least 1 year for engines subject to the Stationary Diesel Engine Air Toxic Control Measure (ATCM). If a longer project life is feasible, the minimum project life should be 3 years.				
Surplus Emission Reductions	The project must be complete (engine installed and operational) at least 1 year prior to the associated ATCM compliance date or within three years of the ARB rule adoption date. See table 10-2 and 10-3 for compliance schedule				
What if I can't replace my engine 1 year before the ATCM compliance date?	Still Apply! The District has an Agricultural Assistance program to help those that need longer project lives to achieve cost effective projects or can't meet the 1 year surplus requirement.				
Carl Moyer program pays for a percentage of project costs	 Tier 3 and 4 Repower – 85 percent Certified SI engine Repower – 85 percent Electric motor repower – 85 percent Electric motor new purchase – 20 percent Retrofit device – 100 percent 				
Cost-effectiveness	Projects must meet a cost-effectiveness of \$16,400 per weighted ton of NOx, ROG and PM10 reduced to be eligible				
Area of activity and required hour meter	 Must be operated within the Districts boundaries All operation hours must be tracked by a functioning hour meter 				
New Engine Emission I					
Agricultural In-Use Stationary Diesel Air Toxic Control Measure (ATCM)	The ATCM requires the replacement or retrofit of older in-use diesel engines with cleaner burning models over a period of 3 to 12 years. The compliance date is dependent upon the size of the Tier of the engine. — In-Use uncontrolled engines have the earliest compliance date — All new engines 50 hp and greater must certify to meet U.S. EPA Tier 3 or cleaner				

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	 emission standards Engines less than 50 hp do not need to meet emission standards 					
Engine Registration Requirements	State regulations require that owners and operators of existing agricultural diesel engrated at greater than 50 hp , register their engines with the Air District by March 1, 20 Register your engines here www.baaqmd.gov/ag_diesel .					
	Engine	Power (hp)	Manufa Yea		Tier	
Table 1	50 ≥			Pre 1998 1998 ² - 2003		
What Tier is my engine?		_ :		2004 - 2007 Pre 1998		
	2		1998 ² - 2003 2004 - 2007		Tier 1 Tier 2 Tier 0	
	100 ≥	$100 \ge hp < 175$		Pre 1997 1997 ² - 2002		
	175 >			2003 - 2006 Pre 1996 1996 ² - 2002		
				2003 - 2005 Pre 1996		
	300 ≥			1996 ² - 2000 2001 - 2005		
	600 ≥	$600 \ge hp \le 750$		Pre 1996 1996 ² - 2001 2002 - 2005		
	hr		Pre 2000 2000 ² - 200		Tier 2 Tier 0 Tier 1	
			2006 - 201		Tier 2	
			le 10-2			
	Non-certified Ir Horsepower	n-Use Stationary Dies Compliance Date	el Agricultur Diesel PM		Emission Limits CI certification	
	Range		Not to Exceed (g/bhp-hr)	Standard		
			(9/bhp-hi)	Tier 3 or Interim Tier Tier 3 Tier 3		
	> 50 to 99 hp 100 to 174 hp 175 to 750 hp	December 31, 2011 December 31, 2010 December 31, 2010	0.30 0.22 0.15		Tier 3 Tier 3	
	100 to 174 hp 175 to 750 hp > 750 hp	December 31, 2010 December 31, 2010 December 31, 2014	0.30 0.22 0.15 0.075		Tier 3 Tier 3 Tier 4	
	100 to 174 hp 175 to 750 hp > 750 hp Tier 1 and Ti	December 31, 2010 December 31, 2010 December 31, 2014 Tab er 2-certified In-Use S	0.30 0.22 0.15 0.075	esel Agricu	Tier 3 Tier 3 Tier 4	
When do I need to replace my engine?	100 to 174 hp 175 to 750 hp > 750 hp Tier 1 and Tie Horsepower Range	December 31, 2010 December 31, 2010 December 31, 2014 Tab er 2-certified In-Use S Emissi	0.30 0.22 0.15 0.075 le 10-3 Stationary Die	esel Agricu	Tier 3 Tier 3 Tier 4 Iltural Engine	
	100 to 174 hp 175 to 750 hp > 750 hp Tier 1 and Tie Horsepower Range > 50 to 75 hp 75 to 174 hp	December 31, 2010 December 31, 2010 December 31, 2014 Tab er 2-certified In-Use S Emissi	0.30 0.22 0.15 0.075 le 10-3 Stationary Diesel PM Not to Exceed (g/bhp-hr) 0.02 0.01	Off-Road Standard	Tier 3 Tier 3 Tier 4 Iltural Engine	

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